

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Attorney Docket No.: **ISPH-0769**  
Inventors: **Monia and Dobie**  
Serial No.: **Not Yet Assigned**  
Filing Date: **Herewith**  
Examiner: **Not Yet Assigned**  
Group Art Unit: **Not Yet Assigned**  
Title: **Antisense Modulation of Histone  
Deacetylase 2 Expression**

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By *Jane Massey Licata*  
Typed Name: **Jane Massey Licata, Reg. No. 32,257**

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Sir:

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

- (XX) In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.
- ( ) In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, therefore:
- ( ) Certification in Accordance with §1.97(e) is set forth below; or
- ( ) The fee of \$180.00 as set forth in §1.17(p) is attached.
- ( ) In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); Petition Requesting Consideration of the Information Disclosure Statement; and the fee of \$130.00 as set forth in §1.17(I)(1).
- ( ) Copies of each of the references listed on the attached Form PTO-1449 (modified) are enclosed herewith.

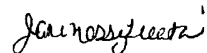
(XX) In accordance with §1.98(d), copies of some or all of the references listed on the attached Form PTO-1449 (modified) are not enclosed herewith because they were previously submitted to the U.S. Patent and Trademark Office in prior application Serial No. 10/173,192, filed June 14, 2002 for which a claim for priority under 35 U.S.C. §120 has been made in the instant application.

Please charge any deficiency or credit any overpayment to Deposit Account No. 50-1619. This form is submitted in duplicate.

( ) The relevance of the listed references in a foreign language is as stated in the specification at pages @@.

(XX) All listed references are in the English language.

Respectfully submitted,



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Date: September 2, 2003

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Form PTO-1449 Modified		Docket No. ISPH-0769	Serial No. not yet assigned
List of Patents and Publications Cited by Application (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Applicant Brett P. Monia et al.	
		Filing Date herewith	Group
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AA	Ayer, Histone deacetylases: transcriptional repression with SINers and NuRDs, Trends in Cell Biology, 1999, 9:193-198	
	AB	Ballas et al., Regulation of neuronal traits by a novel transcriptional complex, Neuron, 2001, 31:353-365	
	AC	Betz et al., Human histone deacetylase 2, HDAC2 (Human RPD3), is localized to 6q21 by radiation hybrid mapping, Genomics, 1998, 52:245-246	
	AD	DePinho, Transcriptional repression. The cancer-chromatin connection, Nature, 1998, 391:533, 535-536	
	AE	Gray et al., The human histone deacetylase family, Exp. Cell Res., 2001, 262:75-83	
	AF	Gray et al., Expression of genes involved with cell cycle control, cell growth and chromatin modification are altered in hepatoblastomas, Int. J. Mol. Med., 2000, 6:161-169	
	AG	Grozinger et al., Three proteins define a class of human histone deacetylases related to yeast Hdalp, Proc. Natl. Acad. Sci. U. S. A., 1999, 96:4868-4873	
	AH	Hassig et al., A role for histone deacetylase activity in HDAC1-mediated transcriptional repression, Proc. Natl. Acad. Sci. U. S. A., 1998, 95:3519-3524	
	AI	Inouye et al., Relief of YY1-induced transcriptional repression by protein-protein interaction with the nucleolar phosphoprotein B23, J. Biol. Chem., 1994, 269:6506-6510	
	AJ	Ito et al., p65-activated histone acetyltransferase activity is repressed by glucocorticoids: mifepristone fails to recruit HDAC2 to the p65-HAT complex, J. Biol. Chem., 2001, 276:30208-30215	
	AK	Kouzarides, Histone acetylases and deacetylases in cell proliferation, Curr. Opin. Genet. Devel., 1999, 9:40-48	
EXAMINER		DATE CONSIDERED	

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	AL	Laherty et al., SAP30, a component of the mSin3 corepressor complex involved in N-CoR-mediated repression by specific transcription factors, Mol. Cell, 1998, 2:33-42	
	AM	Murata et al., Apoptotic cytotoxic effects of a histone deacetylase inhibitor, FK228, on malignant lymphoid cells, Jpn. J. Cancer Res., 2000, 91:1154-1160	
	AN	Nicolas et al., The histone deacetylase HDAC3 targets RbAp48 to the retinoblastoma protein, Nucleic Acids Res., 2001, 29:3131-3136	
	AO	Randhawa et al., Identification and mapping of human histone acetylation modifier gene homologues, Genomics, 1998, 51:262-269	
	AP	Sasaki et al., Ligand-induced recruitment of a histone deacetylase in the negative-feedback regulation of the thyrotropin beta gene, EMBO J., 1999, 18:5389-5398	
	AQ	Schmidt et al., Molecular association between ATR and two components of the nucleosome remodeling and deacetylating complex, HDAC2 and CHD4, Biochemistry, 1999, 38:14711-14717	
	AR	Underhill et al., A novel nuclear receptor corepressor complex, N-CoR, contains components of the mammalian SWI/SNF complex and the corepressor KAP-1, J. Biol. Chem., 2000, 275:40463-40470	
	AS	Wagner et al., Histone deacetylases in replicative senescence: evidence for a senescence-specific form of HDAC-2, FEBS Lett., 2001, 499:101-106	
	AT	Yang et al., Transcriptional repression by YY1 is mediated by interaction with a mammalian homolog of the yeast global regulator RPD3, Proc. Natl. Acad. Sci. U S. A., 1996, 93:12845-12850	
	AU	Yarden et al., BRCA1 interacts with components of the histone deacetylase complex, Proc. Natl. Acad. Sci. USA, 1999, 96:4983-4988	
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	AV	You et al., CoREST is an integral component of the CoREST- human histone deacetylase complex, Proc. Natl. Acad. Sci. U. S. A., 2001, 98:1454-1458	
	AW	Zeng et al., Cloning and characterization of the mouse histone deacetylase-2 gene, J. Biol. Chem., 1998, 273:28921-28930	
	AX	Zhang et al., Histone deacetylases and SAP18, a novel polypeptide, are components of a human Sin3 complex, Cell, 1997, 89:357-364	
	AY	Zhang et al., SAP30, a novel protein conserved between human and yeast, is a component of a histone deacetylase complex, Mol. Cell, 1998, 1:1021-1031	
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**U.S. PATENT DOCUMENTS**

Examiner's Initial		Document No.	Date	Name	Class	Subclass
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					
	AM					
	AN					

**FOREIGN PATENT DOCUMENTS**

Examiner's Initial		Document No.	Date	Country	Translation YES NO	
	AO	WO 00/71703	11/30/2000	PCT	X	
	AP	WO 01/42467	6/14/2001	PCT	X	
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					
	AW					
	AX					

**EXAMINER**

**DATE CONSIDERED**